

SAN et al. -- Appl. No. 09/855,641

AMENDMENTS TO THE ABSTRACT:

Please amend the Abstract as follows:

~~A fully user programmable, graphics processor is disclosed which is designed to be embodied in a removable external memory unit for connection with a host video game information processing system. In an exemplary embodiment, a~~ A video game system is described for use with a television type display device including a host video game system housing a game program processor and a ~~pluggable video game cartridge containing the~~ graphics processor. The programmable graphics processor communicates with the host game processor and incorporates an embedded RAM cache memory. The programmable graphics processor has hardware circuitry for performing 3D geometry transformations such as rotating and/or scaling of polygon-based 3D graphic objects and also includes dedicated hardware for plotting individual pixels ~~for use with a character mapped type display arrangement~~. The graphics processor utilizes an instruction set that is designed to efficiently implement rotation and scaling operations associated with 3D graphics and also includes special instructions for plotting character-mapped pixels.